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A method to control the dynamic range of a hearing aid, comprising at least one acoustic/electric input transducer followed by a signal processing unit which in turn is operationally connected to an electric/acoustic transducer,

## characterized in that

the input impedance of the acoustic/electric transducer is selectively switched from one value to another.

- 2. Method as claimed in claim 1, characterized in that selective switching is carried out when matching the hearing aid to an individual.
- 3. Method defined in claim 1, characterized in that said switching is controlled by the signal processing unit.
- 4. Method as claimed in one of claims 1 through 3, characterized in that the switching is carried out automatically or is initiated from outside the hearing aid.
- 5. Method as claimed in one of claims 1 through 4, characterized in that the input impedance is switched by selectively switching between series and/or parallel circuits of impedance elements.
- A method for manufacturing hearing-aid models with different transfer functions between input-side acoustic/electric transducers and at least one output-side electric/mechanical transducer,

characterized in that

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the hearing-models are manufactured having the same design and in that their impedancespecific dynamic range is set by selectively switching ON an input impedance of the electric/mechanical transducer.

A hearing aid fitted with at least one acoustic/electric input transducer of which the output is operationally connected to the input to of a signal processing unit of which the output is operationally connected to the input of at least one electric/mechanical transducer.

## characterized in that

the input impedance of the transducer can be switched at a control input.

- 8. Hearing aid as claimed in claim 7, characterized in that the control input is operationally connected to an output of the signal processing unit.
- 9. Hearing aid as claimed in either of claims 7 and 8, characterized in that the control input is operationally connected with a manually driven control unit.
- 10. Hearing aid as claimed in either of claims 7 and 8, characterized by a switch connecting at least two impedance elements selectively in series or parallel to the control input.
- 11. Hearing aid as claimed in either of claims 9 and 10, characterized in that the impedance elements at least in part are coils.
- 12. An electromagnetic transducer for a hearing aid fitted with at least two impedance elements,

characterized in that

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a switch is present at the transducer and comprises a control input setting the particular operational input impedance by configuring the impedance elements in different ways..

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